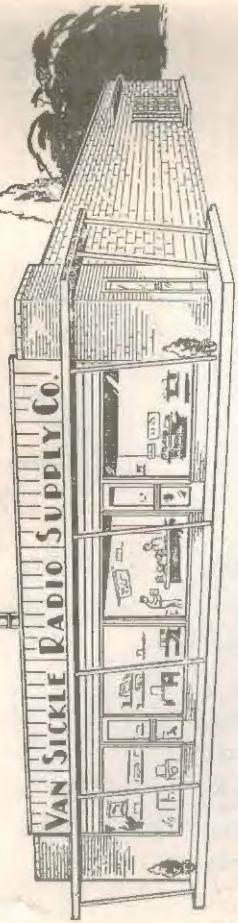


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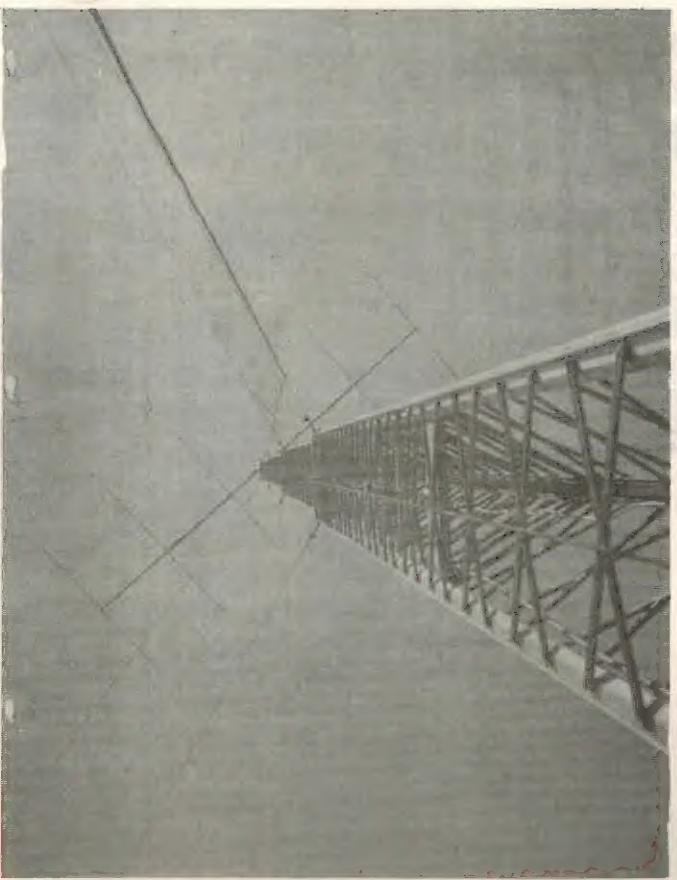
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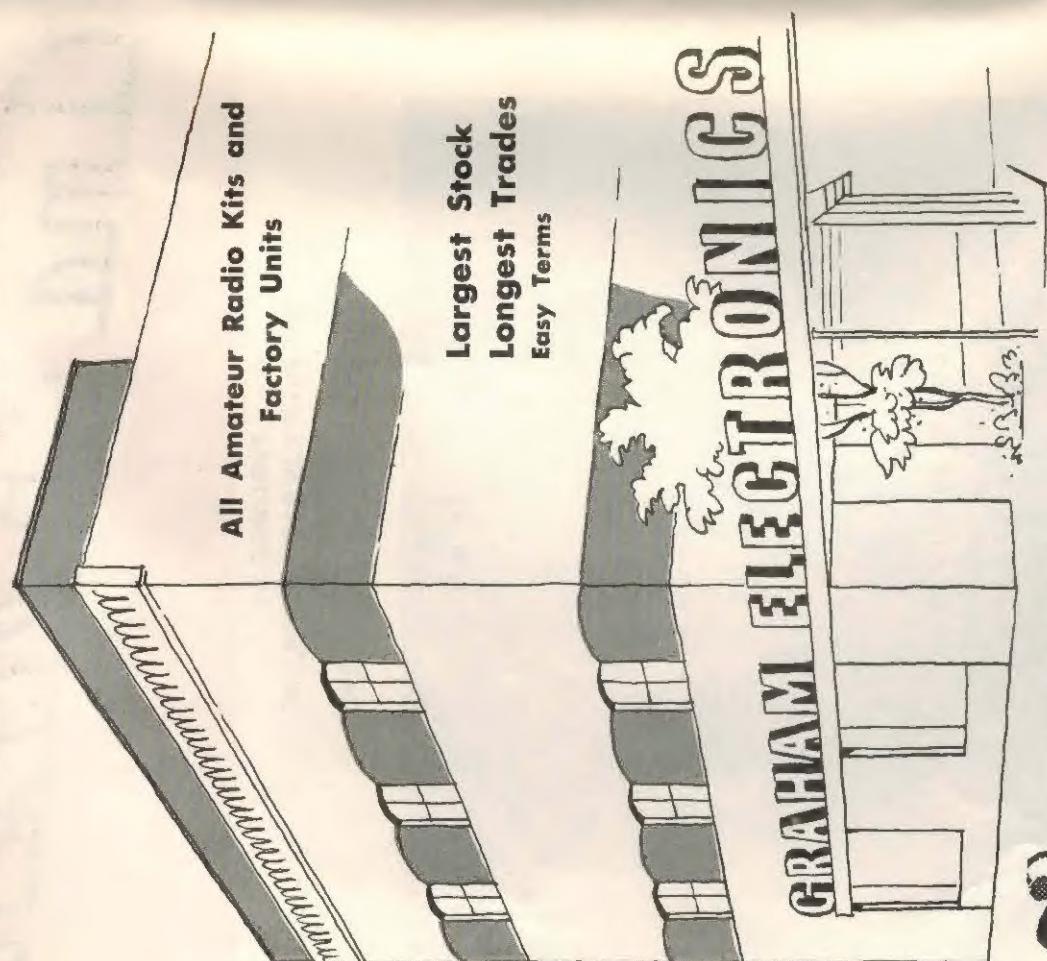
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The Indianapolis Radio Club meets on the 2nd & 4th Friday of each month at the Indianapolis Park Board Building located at 29th and Harding Streets. Meetings start promptly at 8:00 P.M., Indianapolis time.

## AMA-CHEWER STAFF

PRESIDENT	Bert Brouse 6995 Barrwill Drive	K9JSF CL-5-9232
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\*\*\*\*\*

Ama-Chewer is published monthly by and for I.R.C. and all Amateurs in this area. Non-Members of I.R.C. may subscribe at the rate of \$1.00 per year.

Publication is on the 3rd Friday of each month, with all news items and ads due no later than the 1st Friday of each month.

Ham-Ads (5 line limit) are free to members and subscribers. Others may use this facility at the rate of 50 cents per ad.

Ama-Chewer welcomes the forwarding of information on coming events of other clubs in the area for publication in the program section.

This being my final President's Frequency, the first order of business to be discussed is my appreciation of the officers I was associated with during the past year. Although I was only president of IRC for one year and have been president of other clubs in the past, I can truthfully say that I had the best officers I have ever had in any club. Many thanks to them for their assistance in making the Club the outstanding organization it has become in 1961.

Second on the list is a round of personal applause to the Club members themselves for the wonderful cooperation in our many activities, such as Field Day, Swap-and-Shop and many others. Also, I wish to thank the members for their cooperation in bringing the membership of our Club up to the present status it has attained.

The third order of business, concerns the new members we have voted into the Club during the past year. I hope that they enjoy their affiliation with IRC as I have in the years past. The Club meetings we have twice a month are always looked forward to because of the opportunity to learn of the happenings and experiences of fellow hams and to enjoy the wonderful association and fellowship of a group of very fine people.

Although I am associated with the Club as a Director, I will always work toward the Club's continuing success and do all in my power to assist the new officers in any way possible.

Bert Brouse, K9JSF  
President (1961)

\*\*\*\*\*

ATTENTION DX'ERS

Have you written to your senator or members of the committee on Interstate and Foreign Commerce about S.2361 yet? The text of this bill is given on Page 73, October QST. The bill needs a generous showing of grass roots support to (1) get it out of committee, (2) to assure action. Our 1934 Communications Act permits FCC to license only U.S. citizens. The bill to amend has safeguards and provisions for reciprocal licensing and can do much to further world-wide amateur radio. It's our hobby, now let's do something about it. Write about S.2361 TODAY!

The new Mosley CM-1 communications receiver is the result of two years of continuous engineering development. Designed for single sideband, amplitude modulation or continuous wave radio telegraphy, this compact double conversion receiver is truly imaginative in design. It combines excellent selectivity, stability, and freedom from images, with the advantages gained by using a crystal controlled first oscillator.

One of the first things we noticed about the CM-1 is the absence of an RF amplifier stage. The pentode RF amplifier stage normally found on the better amateur receivers serves three functions: Amplification, Image rejection and improvement of the signal-to-noise ratio. In the CM-1, all of these requirements are accomplished through the use of a multiple tuned triode mixer with better overall performance than the usual pentode.

The receiver is equipped with an automatic noise limiter which is very effective in combating impulse noises. Stand-by terminals on the rear of the receiver are in parallel with switch contacts so that a separate relay may be used to control the receiver. In addition, a separate set of contacts on the standby switch, are brought out to the relay terminals on the rear of the set so that if desired, the stand-by switch may be used to control the transmitter and antenna change-over relay. An accessory socket on the rear of the chassis, may be used to furnish 6.3 volts at 3 amps. and 125 volts at 5 ma.

We feel that the Mosley CM-1 is one of the nicer new receivers available for amateur use today.

\*\*\*\*\*

SPLATTER

Craig Larsen, Wn9AKU, came up with a new wrinkle to us. When his exams for a Tech. License were mailed in, he included a self-addressed postcard requesting to be advised if he passed, and the card came back marked, "You Passed!" Now, although he still has to wait, he won't have to chew his nails. Pretty smart, eh? (Ed. Note: Incidentally, Craig is going to Chicago with Wes Dyer next month to try for his General Class license.)

A call to K9YIA gave us the news that the score on the V.H.F. Sweepstakes at 4:30 P.M. Sunday, was 5970 points. Chief Operator, Jim Bamberger and his good looking wife, Karen, were real busy keeping coffee on for the illustrious group of Radio Amateurs gathered at the Bamberger's east side QTH.

Among those "free-loading" were K9SGV-K9SGV; K9DWR; K9UDW-Church; K9CLA and K810I. Equipment for the big event consisted of a Gonset GSB-100, driving a new NOVE VI, into a Nove 1000, and from there into a 47 foot long Sprial Ray, 85 feet off the ground. By the way, Jim manufactures both the Nove VI, and the Nove 1000, for 6 meter single side-band use. Two real fine pieces of Ham equipment.

We hope to see Jim's call near the top of the listings in a forth-coming issue of QST.

\*\*\*\*\*

Dave, K9SOP, has joined the 6 meter crowd with a sixer. He is now using a halo on top of a ten foot mast in his backyard for an antenna. Soon as Dave gets his wheels, about one more year, he plans to go mobile. Watch for him on 6!

\*\*\*\*\*

We are sorry to hear that Frank Black's, W9MNA, XYL has entered Methodist Hospital for surgery and will be confined there for two or three months. Friends may drop a line to her at Room A-210, Methodist Hospital, 16th and Capitol, Indianapolis, Ind. We are sure that all the Club members join with the Ama-Chever in wishing Mrs. Black a speedy recovery.

\*\*\*\*\*

Hank, K9LZJ, wonders if there are any hams that attend the Indianapolis Symphony Orchestra concerts on Sunday afternoons. Claude, W9TKV is the only one found to be turning up. (Ed. Note: Hank, who was that girl, I saw you with?)

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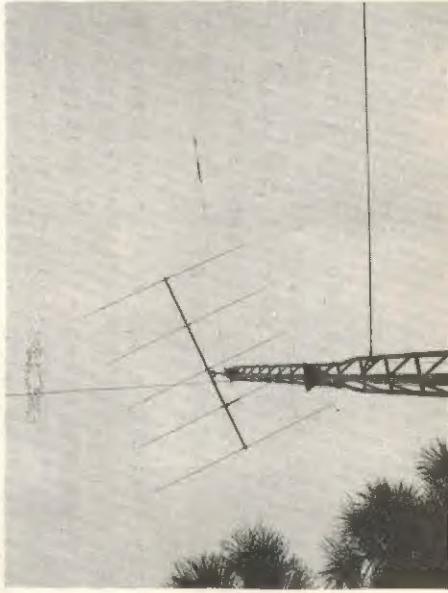
It was a cold, gloomy, January afternoon when we decided to drop in on Bob Osterhous, W9PSE. The customary cheerfulness that best describes Bob and his parents, Mr. and Mrs. Carl Osterhous, along with the warmth of their well appointed friendly living room, soon chased those icy fingers of Old Man Winter out of our back.

Bob, usually an active ham on 40 meters SSB, has had his operating time curtailed somewhat in the last year as business is booming for his Dad at his "INDUSTRIAL AIR EQUIPMENT" on East 46 th street. Still, Bob occasionally finds time to fire-up the HQ-140, 20-A, and homebrew 800 watt linear.

We always enjoy dropping in on Bob because there is always something new going on around his shack. He is either working on a new project, or has moved something to a better location, or perhaps has a new and original idea on something. Most recently, Bob moved his six meter Communicator II from the shack to his room. Perhaps if we are lucky, he might be found sneaking around that well known VHF band these cold Winter nights.

One thing, unlike many hams, the operating area at W9PSE is always in "tip-top" condition and ready to be photographed. Unfortunately, your photographer and reporter had a dud DG photopack and was only able to get a shot of Bob's six meter antenna and forty foot tower. If you look closely, you will probably see the forty meter gamm-matched dipole connected near the top of the tower.

Thanks to Bob and his parents for the warm welcome; and keep an eye open as we'll be back for that "shack shot" real soon.



The Ama-Chever is interested in obtaining an article about amateur television in the VHF portion of the spectrum. Anyone who can give us any information on this, please send all correspondence to Editor

## NOTEWORTHY NEWS

ARRL has now requested our government to review the status of Loran use in the 1800-2000 kc. region, looking to expansion of our amateur work, sharing with this primary navigational use.

A formal petition is in process to ask the FCC to relax the present power limitation in the amateur 420 mc. band.

Per Board action, the League has asked FCC for rules changes which if approved would:

1. Relax the requirements for mobile log keeping.
2. Eliminate the requirement for dual identification by C.W. in RTTY work.
3. Provide for slow scan picture sending in the 10 and 15 meter voice segments with band width limited to that of A-3.

We feel confident that the new year will look brighter for us as radio amateurs. For detailed filing on such matters and news as it develops be sure and follow "Happenings of the Month" in QST.

\*\*\*\*\*

## ATTENTION ALL IRC MEMBERS

Here are the important results of our recent election of officers, held December 9, 1961.

President.....Ed Ward, K9CRS  
Vice-President.....Jerry Lucas, W9APJ  
Secretary.....Hank Wolfila, K9IZJ  
Treasurer.....Pat Husk, K9EUQ  
Chief Operator.....Doyle McVicker, W9JJV  
1st Director.....Al Minnick, K9SUW  
2nd Director.....Bert Brouse, K9JSF

The membership is to be congratulated on their fine selection. We are sure the Indianapolis Radio Club will continue to grow and prosper under their competent leadership and that the Club members will continue to accord them their usual fine cooperation.

## COVER STORY

This month, with the new year at hand, we thought we would reminice. With a touch of nostalgia our mind drifts back through time to that fateful morning of June 24, 1961 and the beautiful 100 foot crank-up tower we used at the Field Day location. (Ed. Note: It's even more beautiful at the top.)

\*\*\*\*\*

## RTTY

Ed (President) Ward, has a Model 15 teleprinter and if Alvey, W9JJC's, Model 14 doesn't start turning in English instead of gibberish, Ed is going to beat him on the air. Alvey says he has been looking through old CQ's and they have running RTTY articles since 1955. For the ham who likes to build, it opens up an entire new world of imaginative electronics. You have to really "dig deep" to find information, but it is available, and a new RTTY Handbook is now available. In addition, there are two RTTY outfits who publish a monthly bulletin. Several months ago, Cliff-W9SWD, gave a brief talk on this specialized phase of our hobby, and if there is enough interest shown, will be back for an encore. Meanwhile, back at the ranch, Alvey is still reading gibberish. He thinks it is the teletype writer but we think it is his converter.

In the interest of amateur radio and primarily that phase of our hobby known as radio teletype, the staff of the Ama-Chewer is interested in compiling a list of those now maintaining radio teletype equipment on-the-air. Please be sure to either call Alvey Pittman, W9JJC at AX 1-9252 or drop a postcard in the mail to Ama-Chewer, Box 40073, Nora Post Office, Indianapolis, Indiana. (Ed. Note: Dear W9JJC: Man, that ain't no converter you got, it's one of them crazy government scramblers!)

\*\*\*\*\*

## LOST AND FOUND

Whatever happened to Chet Crump, K9ADJ? If anybody knows of his whereabouts, why not drop a line to the Ama-Chewer, Box 40073, Nora Post Office, Indianapolis, Indiana.

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AROUND THE SPECTRUM

TRANSISTOR POWER CONVERTER

While reading the mail one afternoon, on 75 m phone, during school Christmas vacation, we heard Gretchen, K9BHH (without her key, of all things) holding her own against more than a dozen wolves. Man, this girl has some technique.

Did all of you send your self-addressed envelopes to the Division QSL Bureau? See Page 14 of September Ama-Chever for complete listings.

\*\*\*\*\*  
Perhaps the newest and fastest growing radio amateur club in Indianapolis is the new, Minor's Amateur Radio Klub, M.M.A.R.K. Under the leadership of Dave Mills, K9SOP, President, and Dave Leonard, K9FZJ, Vice President, the entire membership of nearly thirty-five strives to promote the common interest of amateur radio among those under twenty-one years of age. As this is a new club, "still in the making", any suggestions will be accepted with full club appreciation by the Secretary, Gretchen Wolfla, K9BHH.  
(Ed. Note: ATTENTION THOSE WHO MAY BE CONCERNED:  
K9BHH. CL 5-9650.)

The inverter works as a free-running oscillator. One transistor starts it by drawing somewhat more collector current than its mate, due to the inevitable differences that exist between transistors.

As its collector current flows through transformer T1, it induces a current in the base winding. This winding has been so connected that the current is in the right direction to bias its base more negatively, and more collector current flows.

At the same time, because it is a transformer, the other end of this base winding is going positive, and this is being fed to the other transistor. The positive flowing current keeps this transistor "turned off".

The conducting transistor keeps on conducting as long as the rising collector current is matched by the rising base current. Eventually, the transformer core material saturates and its field commences to collapse.

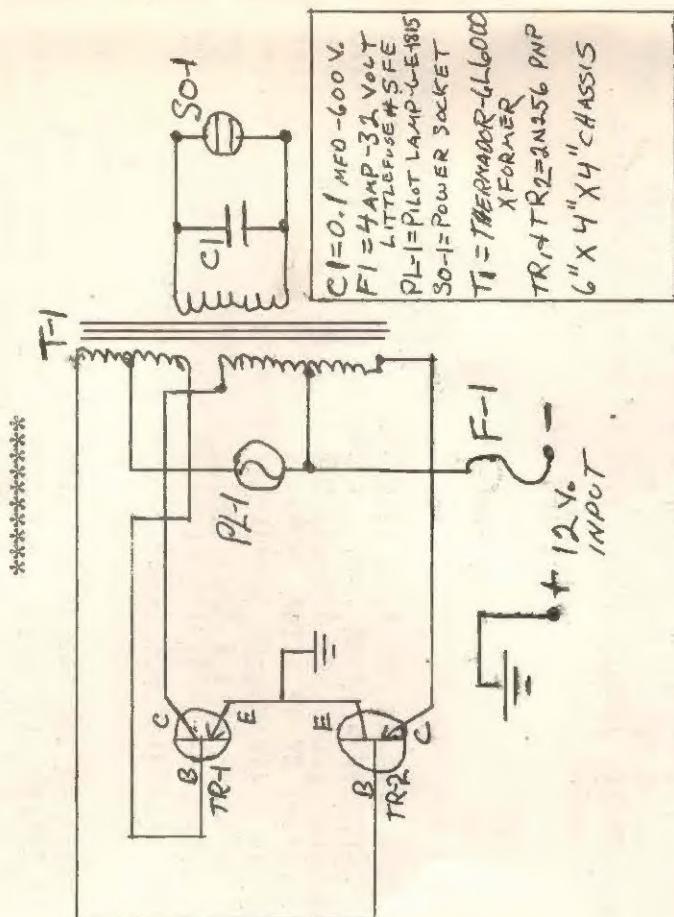
When this happens, there is a sudden reversal of the current in the base winding, the conducting transistor is switched "off", and the one that was not conducting is switched "on". This results in a square-wave voltage being induced in the secondary. It is this voltage stepped up which is found at the output socket. Output frequency is close to 60 cycles.

This inverter is designed to supply about 15 watts of useful output. If mounted under the hood it is very convenient for those after dark "blow-outs", and because it is transistorized, will not run down the battery as much as a vibrator circuit.

de-KyQDR

VAN SICKLE SPECIALS

E..F. Johnson "Adventurer"	\$ 29.00
Heath DX-100	\$149.00
Heath DX-35	\$ 39.00
Hammarlund HQ-110	\$195.00
RME 45.....w/matching speaker	\$ 69.00
Collins 75-S1.....	\$445.00



If you want to know what it is, see the next page and READ.

As of December 19, 1961 (one week in orbit) the amateur radio satellite Oscar I had completed 104 revolutions about the earth on a North-South-North orbit. Reports are beginning to pour into the Oscar Headquarters. A total of 296 reports from 11 foreign countries have been received, with radio messages indicating more are on the way. Mail has been delayed because of the Christmas rush, but it is hoped that future reports will reach HQ more rapidly. Reports have proven to be consistent and accurate enough for use in generating tracking predictions. Telemetry information provided by the keying rate indicated that Oscar I is running a fever. Recent data establishes the temperature of the package to be 125 degrees Fahrenheit.

The following is a summary of the Oscar I staellite:

Frequency: Approximately 144.983 Mc. Power Output: 100 plus milliwatts. HI rate: Proportional to temperature. (10 HI's in 30 seconds = 64° F. Tumble Rate: Approximately 20 seconds. Apogee: (Point farthes from the earth) - approximately 275 miles. Perigee: (Point closest to the earth: Approximately 150 miles. Orbital Period: Apprx. 92 minutes. Total Doppler Shift. Approx. 6.5 kc. (Frequency received is higher than transmitted when satellite is approaching your station; lower when going away). Transmitter: Transistor crystal oscillator on 72.5 mc., transistor amplifier and "Veri-cap" diode doubler to 145 mc. Keyer consists of transistor multivibrator and counters with diode logic. Oscillator is keyed in base circuit. Power Supply: Mercury batteries. Expected life of batteries: 3 to 4 weeks. Antenna: 1/4 wave monopole, about 19 inches long. Dimensions and weight: 12" x 10" x 8". Weight 10 pounds.

All daytime passes are from North to South. All nighttime passes are from South to North.

(Ed. Note: Daytime passes????? This must be some new kinds of hobby.)

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#### GRAHAMS SPECIALS OF THE MONTH

Johnson Valiant.....	\$299.50
Gon-set GSB 100.....	\$298.00
Globe VHF 62 Transmitter.....	\$ 79.50
Gonset G-28..10 meter tranceiver..NEW ..NEW ..	\$179.70

#### GRAHAMS SPECIALS OF THE MONTH

RME 4350....w/Side Band Slicer and speaker.....	\$179.00
HQ-170 C Hammarlund.....	\$230.00
Central Electronics 20-A.....	\$179.50
Hallicrafter HT-31.Linear.....	\$150.00
Johnson 6N2 Converter...KITS.....	\$ 50.95

Four volts and seven ohms ago, our farads brought forth into this capacitance, a neutralization, dedicated to the power that all resistance created is equal in inverse feed-back when all oscillations are consuming the food of electricity in which a current of great dissipations is achieved and where all electrons have a free right to short all circuits and blow all fuses.

Here have gathered the great real powers of XL and XC who are fighting the great signal strength to obtain resonance. We hereby dedicate this day to our electrons which have been lost in the vast field of ionizations. So let us air out capacitance, decrase resistance, increase voltage, and are across to defeat the great foe of distortion; let us generate out harmonics to such a scale that our neutralization will forever be pure resonance.

DE - K9LZJ and "Bison"

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#### SELLING

SX-100 in like new condition. Only 20 hrs..... \$250.00  
Viking Challenger-Factory Wired...Like New..... \$110.00  
R-46B Speaker for SX-100..... \$ 15.00  
Mike, JT-30..... \$ 8.00  
5 element beam....Hi-Gain..... \$ 10.00  
30 ft. TV Tower..... \$ 25.00  
Trio Rotator..... \$ 15.00  
6 meter converter...Ameco..... \$ 18.00  
Johnson Key..... \$ 3.00  
Call or Write: Jerry Williams, K9RAB  
5255 Woodsie Drive  
Indianapolis, Indiana

FOR SALE: Misner Signal Shifter..... \$ 15.00  
Hank Wolfia, K9LZJ  
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